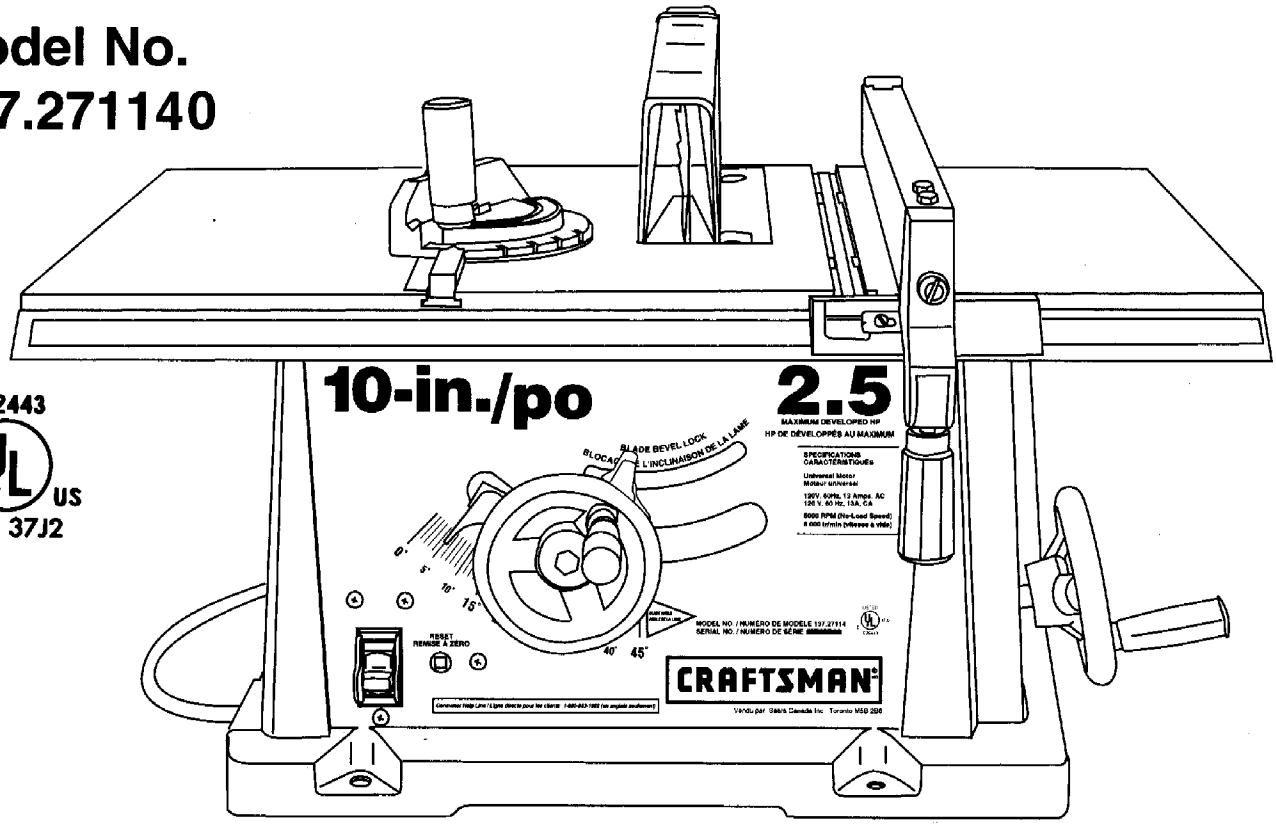
Owner's Manual

CRAFTSMAN®

2.5 HP (Maximum Developed)
10" Inch Blade
5000 R.P.M.

TABLE SAW

Model No.
137.271140



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CAUTION:

Before using this Table Saw, read this manual and follow all its Safety Rules and Operating Instructions.

- Safety Instructions
- Installation
- Operation
- Maintenance
- Parts List

Customer Help Line
1-800-843-1682

Sears Canada Inc., Toronto M5B 2B8
Part No. 137271140001

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WARRANTY

FULL TWO YEAR WARRANTY

If this product fails due to a defect in material or workmanship within two years from the date of purchase, Sears will at its option repair or replace it free of charge.

Contact a Sears Service Center for repair.

If this product is used for commercial or rental purposes, this warranty applies only for 90 days from the date of purchase.

This warranty is in addition to any statutory warranty.

Sears Canada Inc., Toronto M5B 2B8

PRODUCT SPECIFICATIONS

MOTOR

HP (Max. developed)	2.5
Volts	120
Amperes	13
Hertz	60
RPM (no load)	5000
Overload protection	YES

SAW

Table	17 1/2" x 26 1/2"
Blade	10"
Maximum depth of cut at 90°	3"
Maximum depth of cut at 45°	2 1/2"
Maximum width of dado	1/2"
Weight	35.4 lbs.

⚠ WARNING

To avoid electrical hazards, fire hazards, or damage to the tool, use proper circuit protection.

Your table saw is wired at the factory for 120V operation. Connect to a 120V, 15 AMP branch circuit and use a 15 AMP time delay fuse or circuit breaker. To avoid shock or fire, replace power cord immediately if it is worn, cut or damaged in any way.

GENERAL SAFETY INSTRUCTIONS

BEFORE USING THE TABLE SAW

Safety is a combination of common sense, staying alert and knowing how to use your table saw.

⚠ WARNING

To avoid mistakes that could cause serious injury, do not plug the table saw in until you have read and understood the following:

1. **READ** and become familiar with this entire instruction manual. LEARN the tool's applications, limitations, and possible hazards.
2. **KEEP GUARDS IN PLACE** and in working order.
3. **DON'T USE IN A DANGEROUS ENVIRONMENT.** Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted.
4. **DO NOT** use power tools in the presence of flammable liquids or gases.
5. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
6. **KEEP CHILDREN AWAY.** All visitors should be kept at a safe distance from the work area.
7. **DON'T FORCE THE TOOL.** It will do the job better and safer at the rate for which it was designed.
8. **USE THE RIGHT TOOL.** Don't force tool or the attachment to do a job for which it was not designed.
9. **WEAR PROPER APPAREL.** DO NOT wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.
10. **WEAR A FACE MASK OR DUST MASK.** Sawing operation produces dust.
11. **DISCONNECT TOOLS** before servicing, and when changing accessories, such as blades, bits, cutters, and the like.
12. **REDUCE THE RISK OF UNINTENTIONAL STARTING.** Make sure the switch is in OFF position before plugging in.
13. **USE RECOMMENDED ACCESSORIES.** Consult the owner's manual for the recommended accessories. The use of improper accessories may cause risk of injury to persons.
14. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form the habit of checking to see that keys and adjusting wrenches are removed from the tool before turning ON.
15. **NEVER LEAVE TOOL RUNNING UNATTENDED. TURN THE POWER OFF.** Don't leave the tool until it comes to a complete stop.
16. **NEVER STAND ON TOOL.** Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.
17. **DON'T OVERREACH.** Keep proper footing and balance at all times.
18. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
19. **CHECK FOR DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
20. **MAKE WORKSHOP KID PROOF** with padlocks, master switches, or by removing starter keys.
21. **DO NOT** operate the tool if you are under the influence of any drugs, alcohol or medication that could affect your ability to use the tool properly.
22. Dust generated from certain materials can be hazardous to your health. Always operate the table saw in a well-ventilated area and provide for proper dust removal. Use dust collection systems whenever possible.

23. **ALWAYS WEAR EYE PROTECTION.** Any table saw can throw foreign objects into the eyes which could cause permanent eye damage. ALWAYS wear Safety Goggles (not glasses) that comply with ANSI safety standard Z87.1. Everyday eyeglasses have only impact-resistant lenses. They ARE NOT safety glasses. Safety Goggles are available at Sears. **NOTE:** Glasses or goggles not in compliance with ANSI Z87.1 could seriously hurt you when they break.

SAVE THESE INSTRUCTIONS

24. **DIRECTION OF FEED.** Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.

25. **WARNING:** Dust generated from certain materials can be injurious to your health. Always operate saw in well ventilated areas and provide for proper dust removal.

SPECIFIC SAFETY INSTRUCTIONS FOR THE TABLE SAW

1. **ALWAYS USE SAW BLADE GUARD** spreader and anti-kickback pawls for every operation for which they can be used, including through-sawing. Through-sawing operations are those in which the blade cuts completely through the workpiece when ripping or cross-cutting.

2. **ALWAYS HOLD THE WORK FIRMLY** against the mitre gauge or rip fence.

3. **USE A PUSH STICK** when required. Always use a push stick for ripping narrow stock. Refer to ripping applications in the instruction manual where the push stick is covered in detail. See the push stick pattern included in this Owner's Manual.

4. **NEVER PERFORM ANY OPERATION "FREE HAND",** which means using your hands only to support or guide the workpiece. Always use either the fence or the mitre gauge to position and guide the work.

5. **NEVER STAND** or have any part of your body in line with the path of the saw blade. Keep your hands out of the line of the saw blade.

6. **NEVER REACH** behind or over the cutting tool for any reason.

7. **REMOVE** the rip fence when cross-cutting.

8. **DO NOT USE** molding head set with this saw.

9. **FEED WORK INTO THE BLADE** against the direction of rotation only.

10. **NEVER** use the fence as a cut-off gauge when cross-cutting.

11. **NEVER ATTEMPT TO FREE A STALLED SAW BLADE** without first turning the saw OFF. Turn power switch OFF immediately to prevent motor damage.

12. **PROVIDE ADEQUATE SUPPORT** to the rear and sides of the saw table for wide or long workpieces.

13. **AVOID KICKBACKS** (work thrown back towards you) by keeping the blade sharp, keeping the rip fence parallel to the saw blade, and by keeping the spreader, anti-kickback pawls, and guard in place and functioning. Do not release work before it is pushed all the way past the saw blade. Do not rip work that is twisted, warped, or does not have a straight edge to guide along the fence.

14. **AVOID AWKWARD OPERATIONS** and hand positions where a sudden slip could cause your hand to move into the cutting tool.

15. **NEVER USE SOLVENTS** to clean plastic parts. Solvents could possibly dissolve or otherwise damage the material. Only a soft damp cloth should be used to clean plastic parts.

16. **MOUNT** your table saw before performing any cutting operations. Refer to installation instructions.

17. **NEVER CUT METALS** or materials which may make hazardous dust.

18. **ALWAYS USE IN A WELL VENTILATED AREA.** Remove sawdust frequently. Clean out sawdust from the interior of the saw to prevent a potential fire hazard.

19. **NEVER LEAVE THE TOOL** running unattended. Don't leave the tool until it comes to a complete stop.

20. For proper operation follow the instructions of this owner's manual titled "**SAW MOUNTED TO WORK SURFACES.**" Failure to provide sawdust fall-through and removal hole will allow sawdust to build up in the motor area, which may result in a fire hazard or cause motor damage.

ELECTRICAL REQUIREMENTS

POWER SUPPLY AND MOTOR SPECIFICATIONS

⚠ WARNING

To avoid electrical hazards, fire hazards, or damage to the tool, use proper circuit protection. Use a separate electrical circuit for your tools.Your saw is wired at the factory for 120V operation. Connect to a 120V, 15 Amp circuit and use a 15 Amp time delay fuse or circuit breaker. To avoid shock or fire, if power cord is worn or cut, or damaged in any way, have it replaced immediately.

SAVE THESE INSTRUCTIONS

GROUNDING INSTRUCTIONS

IN THE EVENT OF A MALFUNCTION OR BREAKDOWN, grounding provides a path of least resistance for electric current and reduces the risk of electric shock. This tool is equipped with an electric cord that has an equipment grounding conductor and a grounding plug. The plug MUST be plugged into a matching receptacle that is properly installed and grounded in accordance with ALL local codes and ordinances.

DO NOT MODIFY THE PLUG PROVIDED. If it will not fit the receptacle, have the proper receptacle installed by a qualified electrician.

IMPROPER CONNECTION of the equipment grounding conductor can result in risk of electric shock. The conductor with the green insulation (with or without yellow stripes) is the equipment grounding conductor. If repair or replacement of the electric cord or plug is necessary, DO NOT connect the equipment grounding conductor to a live terminal.

CHECK with a qualified electrician or service personnel if you do not completely understand the grounding instructions, or if you are not sure the tool is properly grounded.

USE ONLY 3-WIRE EXTENSION CORDS THAT HAVE 3-PRONG GROUNDING PLUGS AND 3-POLE RECEPTACLES THAT ACCEPT THE TOOL'S PLUG. REPAIR OR REPLACE DAMAGED OR WORN CORD IMMEDIATELY.

GUIDELINES FOR EXTENSION CORDS

Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. The table below shows the correct size to use according to cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

Be sure your extension cord is properly wired and in good condition. Always replace a damaged extension cord or have it repaired by a qualified person before using it. Protect your extension cords from sharp objects, excessive heat and damp or wet areas.

Use a separate electrical circuit for your tools. This circuit must not be less than #12 wire and should be protected with a 15 Amp time lag fuse. Before connecting the motor to the power line, make sure the switch is in the OFF position and the electric current is rated the same as the current stamped on the motor nameplate. Running at a lower voltage will damage the motor.

This tool is intended for use on a circuit that has a receptacle like the one illustrated in FIGURE A. **FIGURE A** shows a 3-prong electrical plug and receptacle that has a grounding conductor. If a properly grounded receptacle is not available, an adapter **(FIGURE B)** can be used to temporarily connect this plug to a 2-contact ungrounded receptacle. The adapter **(FIGURE B)** has a rigid lug extending from it that MUST be connected to a permanent earth ground, such as a properly grounded receptacle box. **THE TEMPORARY ADAPTER SHOULD BE USED ONLY UNTIL A PROPERLY GROUNDED OUTLET CAN BE INSTALLED BY A QUALIFIED ELECTRICIAN.** The Canadian Electrical Code prohibits the use of adapters.

CAUTION: In all cases, make certain the receptacle in question is properly grounded. If you are not sure have a certified electrician check the receptacle.

⚠ WARNING

This table saw is for indoor use only. Do not expose to rain or use in damp locations.

Fig. A

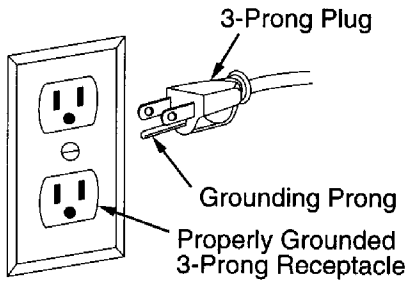
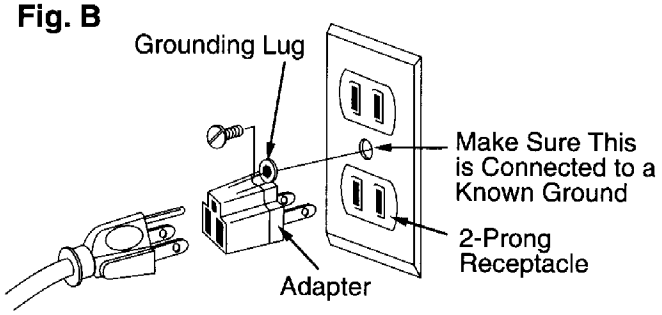


Fig. B



⚠ WARNING

This tool must be grounded while in use to protect the operator from electrical shock.

MINIMUM GAUGE FOR EXTENSION CORDS (AWG) (when using 120 volts only)					
Ampere Rating		**Total length of cord in feet**			
more than	not more than	25'	50'	100'	150'
0	6	18	16	16	14
6	10	18	16	14	12
10	12	16	16	14	12
12	16	14	12	Not Recommended	

SAVE THESE INSTRUCTIONS

ACCESSORIES AND ATTACHMENTS

RECOMMENDED ACCESSORIES

Visit your Sears Hardware Department or see the Craftsman Power and Hand Tools Catalog to purchase recommended accessories for this power tool.

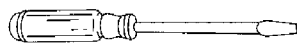
⚠ WARNING

To avoid the risk of personal injury:

- Do not use adjustable (wobble) type dadoes or carbide tipped dado blades, maximum dado width is 1/2".
- Do not use a dado with a diameter larger than 6".
- Do not use molding head set with this saw.
- Do not modify this power tool or use accessories not recommended by Sears.

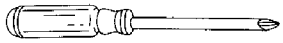
TOOLS NEEDED FOR ASSEMBLY

TOOLS NEEDED

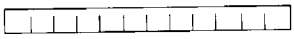


Medium screwdriver

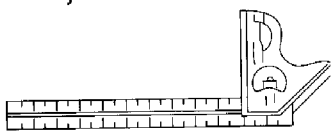
Adjustable wrench



#2 Phillips screwdriver



Straight edge



Combination square

CARTON CONTENTS

UNPACKING AND CHECKING CONTENTS

Separate all parts from packing material. Check each one with the illustration on the next page and the table of loose parts to make certain all items are accounted for, before discarding any packing material.

⚠ WARNING

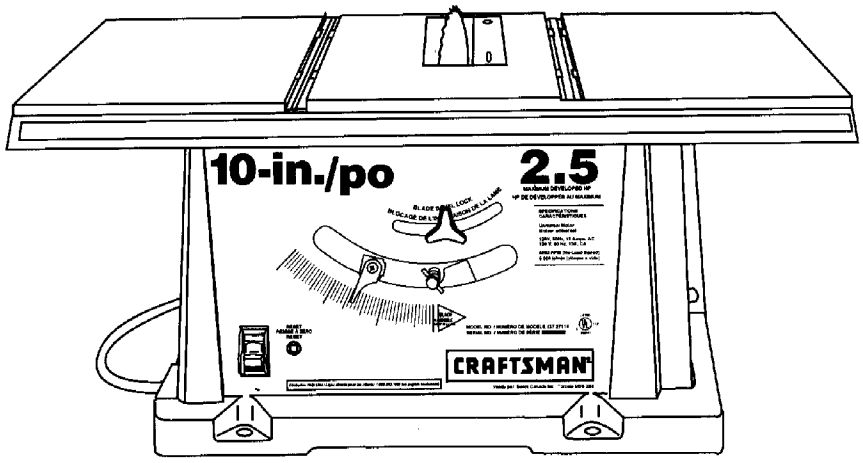
To avoid personal injury, if any parts are missing or damaged, do not attempt to assemble the table saw, plug in the power cord, or turn the switch on until the missing or damaged part is obtained and is installed correctly.

TABLE OF LOOSE PARTS

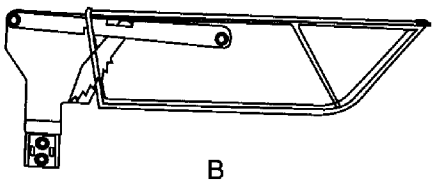
ITEM	DESCRIPTION	QUANTITY
A.	Table saw assembly	1
B.	Blade guard and splitter	1
C.	Bolt, flat washer, toothed washer, oval washer	1 each
D.	Rip fence and handle	1
E.	Handwheels	2
F.	Dome nuts	2
G.	Wheel handles	2
H.	Dado insert	1
I.	Mitre gauge	1
J.	Hex key	2
K.	Blade wrenches	2

NOTE: To make assembly easier, keep contents of box together. Apply a coat of automobile wax to the table. Wipe all parts thoroughly with a clean dry cloth. This will reduce friction when pushing the workpiece.

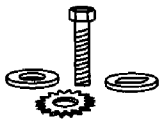
UNPACKING YOUR TABLE SAW:



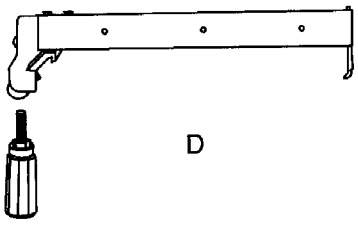
A



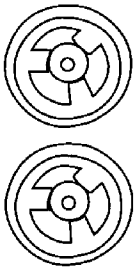
B



C



D

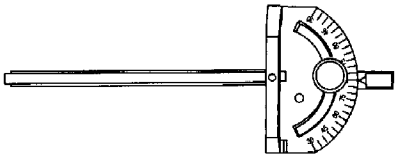


E

F

G

H

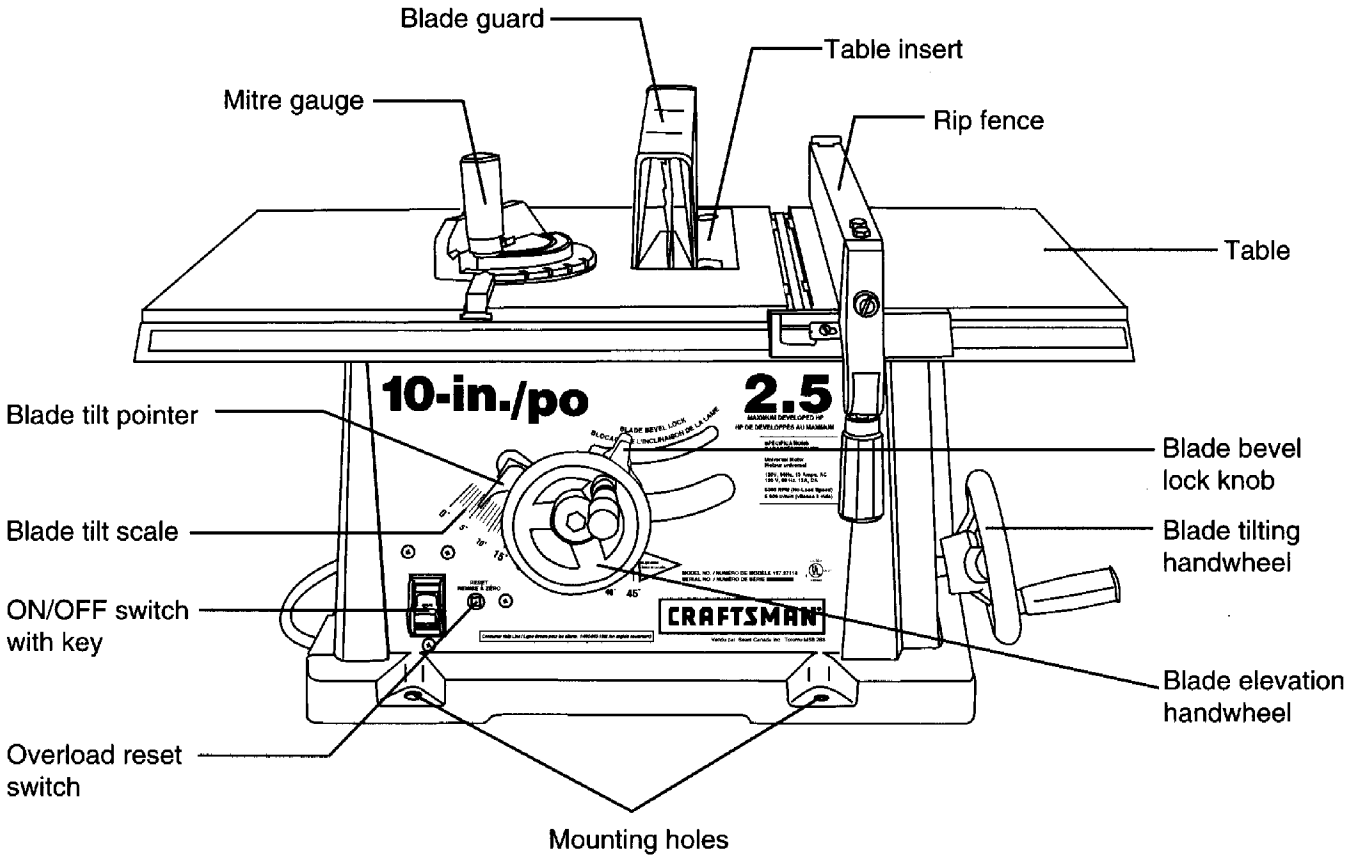


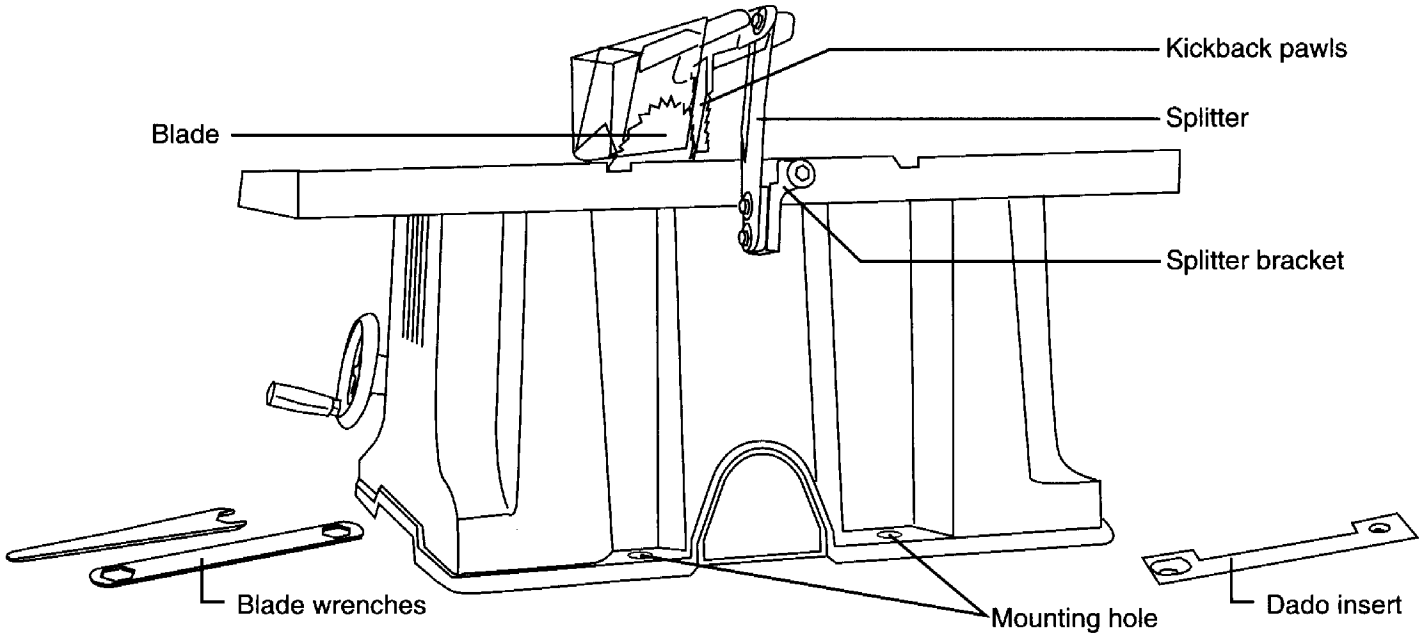
I

J

K

KNOW YOUR TABLE SAW



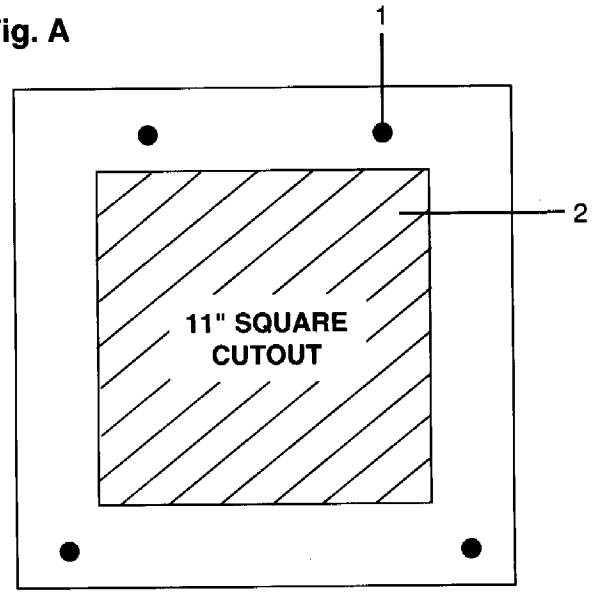


ASSEMBLY INSTRUCTIONS

SAW MOUNTED TO WORK SURFACES (FIG. A)

1. The saw must be properly secured to a sturdy workbench using the four mounting holes at the base of the saw.
2. The surface of the table where the saw is to be mounted must have a hole large enough to facilitate sawdust fall-through and removal.
3. Square the saw on the mounting surface and mark the location of the four 3/8" mounting holes (1).
4. Drill 3/8" holes into the mounting surface.
5. Mark an 11" square (2) centered between the four mounting holes (1).
6. Cut out and remove the square.
7. This opening will allow sawdust to fall through the saw base.
8. Place the saw on the work surface, and align the mounting holes of the saw with those drilled through the surface.
9. Fasten the saw to the work surface.

Fig. A



⚠ WARNING

Failure to provide the sawdust fall-through hole will cause sawdust to build up in the motor area, which may result in fire or cause motor damage.

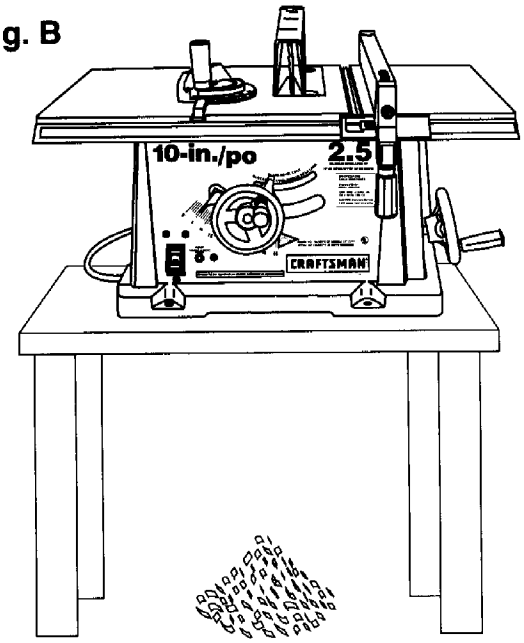
KEEPING THE AREA CLEAN (FIG. B)

1. Sawdust and wood chips that fall from under the saw will accumulate on the floor.
2. Make it a practice to pick up and discard this dust when you have completed cutting.

⚠ WARNING

Always keep your work area clean, uncluttered and well lit. Do not work on floor surfaces that are slippery from sawdust or wax.

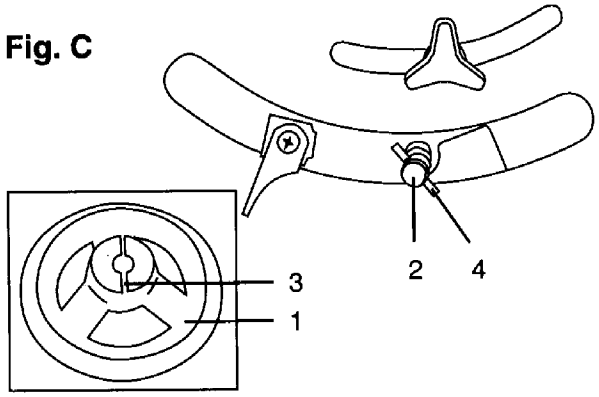
Fig. B



BLADE RAISING HANDWHEEL (FIG. C)

1. Attach the handwheel (1) to the elevation screw (2). Make sure the slots (3) in the hub of the handwheel engage with the pins (4).
2. Attach and tighten the dome nut (5) at the end of the shaft **(Fig. D).**

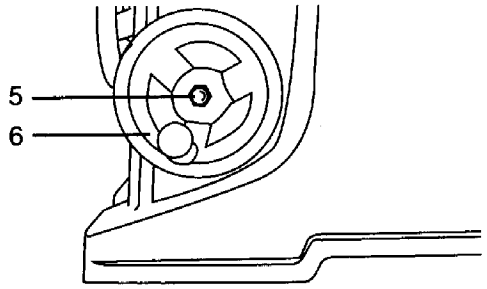
Fig. C



BLADE TILTING HANDWHEEL (FIG. D)

1. Attach the other handwheel (6) to the blade tilting screw in the same manner as above.
2. Attach and tighten the handwheel dome nut (5).

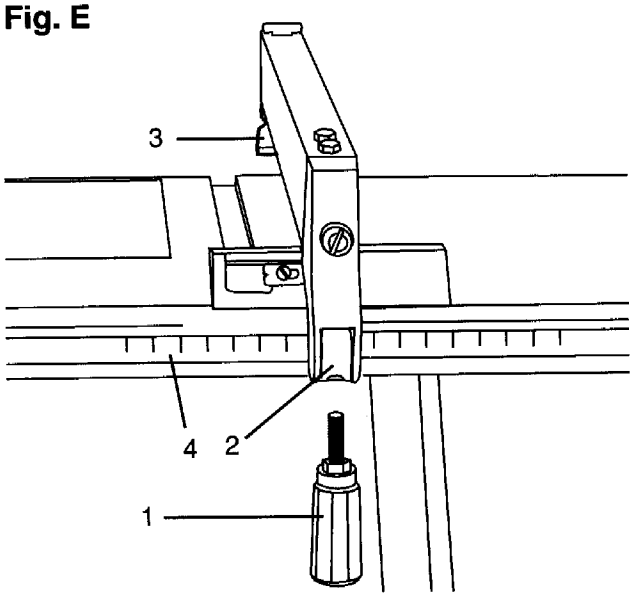
Fig. D



RIP FENCE (FIG. E)

1. Thread the fence handle (1) into the cam hole (2) until tight.
2. Lift upward on the rip fence handle so that the holding clamp (3) is fully extended.
3. Place the rip fence on the saw table and engage the holding clamp to the table rear. Lower the front end onto the front rail (4).
4. Push down on the fence handle to lock.

Fig. E



CHANGING THE BLADE (FIG. F, G, H)

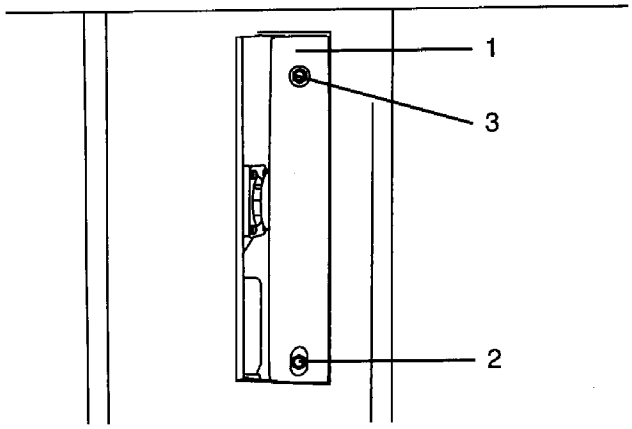
⚠ WARNING

To avoid injury from an accidental start, make sure the switch is in the OFF position and the plug is not connected to the power source outlet.

1. Remove the table insert (1) by unscrewing the two screws (2, 3). Be careful not to lose the rubber washer that is on the back screw (3) beneath the table insert.

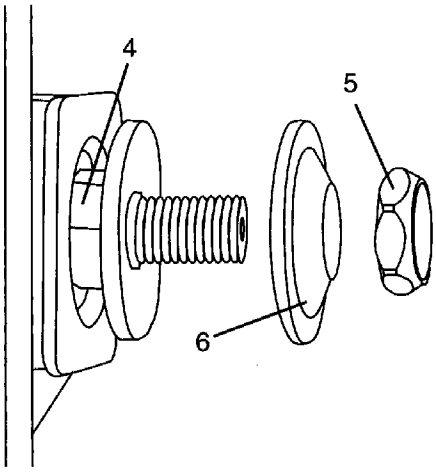
   NOTE: The back screw is longer than the front screw.

Fig. F



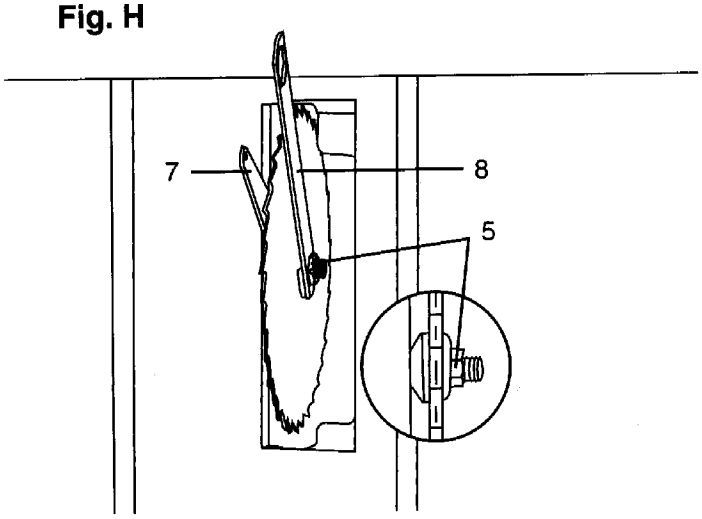
2. Raise the blade arbor (4) **(FIG. G)** to the maximum height by turning the blade-raising handwheel counterclockwise.
3. Remove the arbor nut (5) and flange (6), remove blade.
4. Install the new saw blade onto the arbor with the blade teeth pointing toward the front of the saw.
5. Install the flange against the blade and thread the arbor nut as far as possible by hand. Ensure that the blade is flush against the inner side of the blade flange.

Fig. G



6. To tighten the arbor nut (5) **(FIG. H)** use the open-end wrench (7) and align the wrench jaws on the flats of the blade arbor to keep the arbor from turning.
7. Place the box-end wrench (8) on the arbor nut, and turn clockwise (to the rear of the saw table.)
8. Replace the blade insert in the table recess, insert screws through the front and rear holes and tighten.

Fig. H



⚠ WARNING

To avoid injury from a thrown workpiece, blade parts, or blade contact, never operate saw without the proper insert in place. Use the saw blade insert when sawing. Use the dado head insert when using a dado.

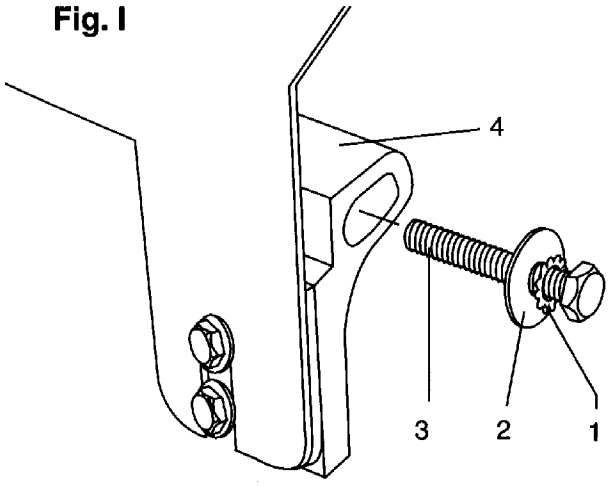
BLADE GUARD ASSEMBLY (FIG. I, J, K, L)

⚠ WARNING

To avoid injury from an accidental start, make sure the switch is in the OFF position and the plug is not connected to the power source outlet.

1. Set the blade to maximum height and the tilt to zero degrees on the bevel scale. Lock the blade lock knob.
2. Place the external tooth lockwasher (1) followed by a flat washer (2) onto the long bolt (3).
3. Insert this bolt through the splitter bracket (4) on the back of the guard assembly.

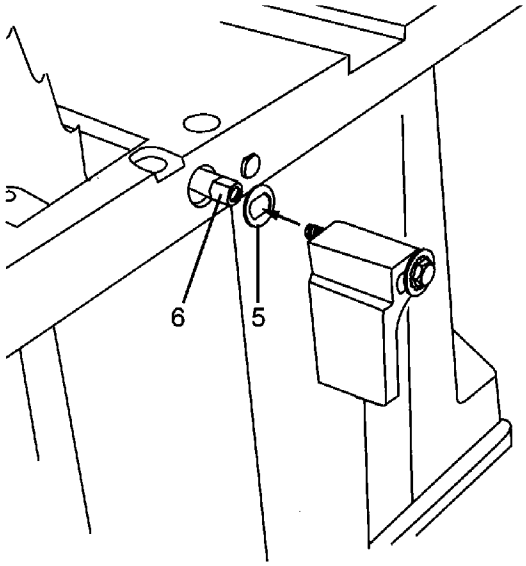
Fig. I



4. Place washer (5) on to the pivot rod (6). Insert the guard assembly into the pivot rod **(FIG. J and K)** at the rear of the saw table and tighten.

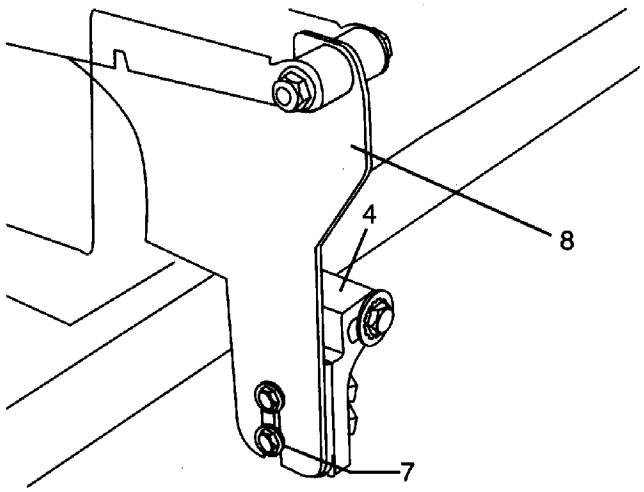
   NOTE: Blade guard and splitter assembly removed from the splitter bracket illustration for clarity. **(FIG. J).**

Fig. J



5. Check that the nuts (7) that hold the blade guard assembly (8) to the bracket (4) are tight. Tighten if necessary. **(FIG. K)**

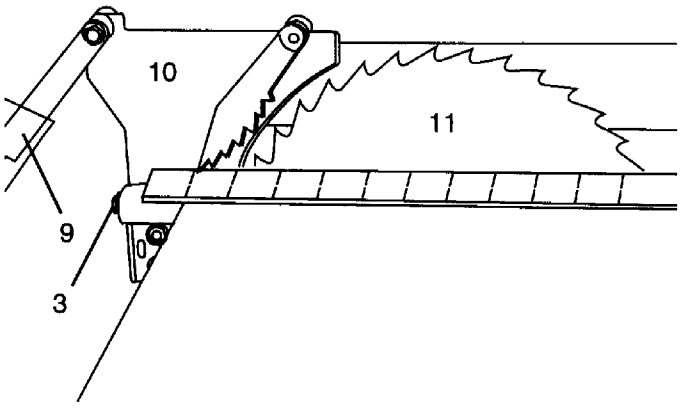
Fig. K



6. Position the blade guard arm (9) **(FIG. L)** to the rear.
7. Using a straight edge, check to see that the blade guard splitter (10) is aligned with the saw blade (11).
8. If straightening adjustment is necessary, the splitter (10) can be shifted to the left or to the right, and rotated.
9. When you are certain the splitter is properly aligned with the saw blade, tighten the bolt (3).

   NOTE: The splitter must always be correctly aligned so that the cut workpiece will pass on either side of the splitter without binding or twisting to the side.

Fig. L

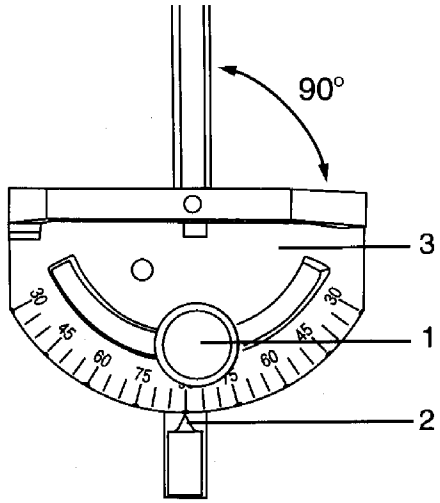


ADJUSTMENT INSTRUCTIONS

MITRE GAUGE ADJUSTMENT (FIG. M)

1. Make sure that the mitre gauge will slide freely through both table grooves.
2. Loosen the lock knob (1). Set the pointer (2) to the 90° mark on the scale.
3. Make a 90° cut in a piece of scrap wood. Check cut piece to see if it was cut at 90°. If it is not, continue to adjust the mitre gauge body (3) until the wood piece is cut at 90°. Refer to OPERATION section for cutting instructions.

Fig. M



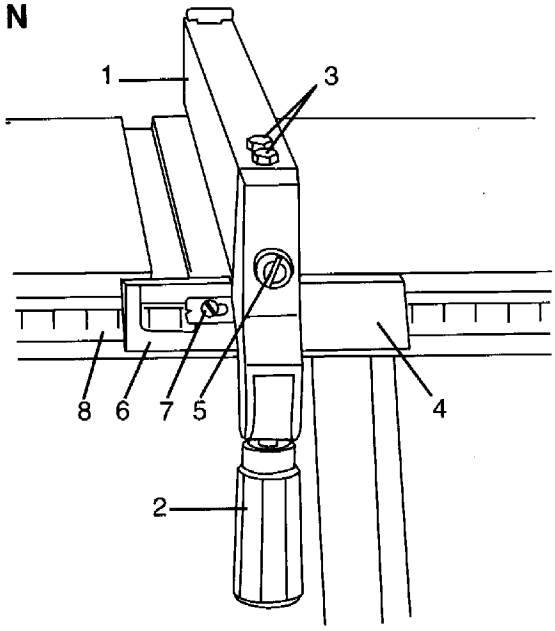
RIP FENCE ADJUSTMENT (FIG. N)

⚠ WARNING

To avoid injury from an accidental start, make sure the switch is in the OFF position and the plug is not connected to the power source outlet.

1. The fence (1) is moved by lifting up on the handle (2) and sliding the fence to the desired location. Pushing down on the handle locks the fence in position.
2. Position the fence on the right side of the table, and along one edge of the mitre gauge grooves.
3. Lock the fence handle. The fence should be parallel with the mitre gauge groove.
4. If adjustment is needed to make the fence parallel to the groove, do the following:
   - Loosen the two screws (3) and lift up on the handle (2).
   - Hold the fence bracket (4) firmly against the front of the saw table. Move the far end of the fence until it is parallel with the mitre gauge groove.
   - Tighten both screws and push the handle to lock.
5. If fence is loose when the handle is in the locked (downward) position, do the following:
   - Move the handle (2) upward and turn the adjusting screw (5) clockwise until the rear clamp is snug. Do not turn the adjusting screw more than 1/4 turn at a time.
   - Over-tightening the adjusting screw will cause the fence to come out of alignment.

Fig. N



RIP FENCE INDICATOR ADJUSTMENT (FIG. N)

1. The rip fence indicator (6) points to the measurement scale (8). The scale shows the distance from the side of the fence to the nearest side of the blade.
2. Measure the actual distance with a rule. If there is a difference between the measurement and the indicator, adjust the indicator (6).
3. Loosen the screw (7) and slide the indicator to the correct measurement on the scale. Tighten screw and remeasure with the rule.

⚠ WARNING

To avoid injury from an accidental start, make sure the switch is in the OFF position and the plug is not connected to the power source outlet.

ADJUSTING THE 90° AND 45° POSITIVE STOPS (FIG. O, P)

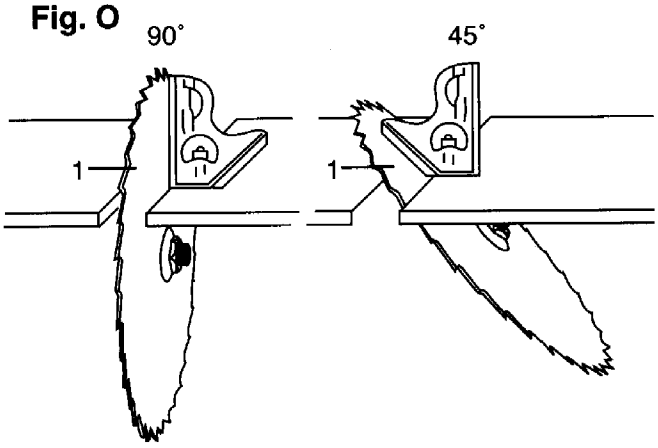
Your saw has positive stops that will quickly position the saw blade at 90° or 45° to the table. These stops were set at the factory. Make adjustments only if necessary.

90° Stop

1. Disconnect the saw from the power source.
2. Turn the blade elevation handwheel and raise the blade to the maximum elevation.
3. Loosen the blade bevel lock knob and move the blade to the maximum vertical position. Tighten the lock knob.
4. Place a combination square on the table and against the blade (1) to determine if the blade is 90° to the table. **(FIG. O)**
5. If the blade is not 90° to the table, loosen the two set screws (4), located on the bottom of the table saw, **(FIG. P)** with the hex key, and back off the collar (5).

6. Loosen the bevel lock knob. Turn the blade tilting handwheel to move the blade until it is 90° to the table.
7. Adjust the collar (5) so it contacts the bracket (3) when the blade is 90° to the table. Tighten the two set screws (4).

Fig. O



45° Stop

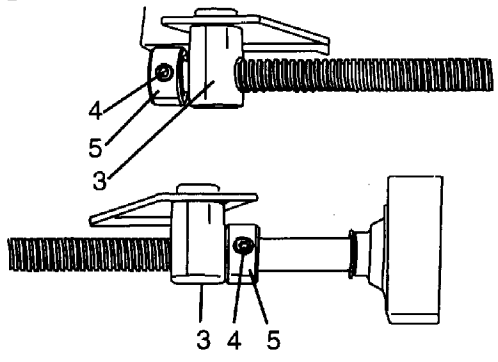
1. With the blade in the upright 90° position, loosen the bevel lock knob. Turn the blade tilting handwheel and move the blade to the 45° position as far as it will go.
2. Place the combination square on the table as shown in **(FIG. O)** to check if the blade is 45° to the table.
3. If the blade is not 45° to the table, loosen the two set screws (4) located under the table saw **(FIG. P)** with a 3 mm hex key, and back off the collar (5).
4. Loosen the bevel lock knob; turn the tilting handwheel to move the blade until it is 45° to the table.
5. Adjust the collar (5) so it contacts the bracket (3) when the blade is 45°. Tighten set screws (4).

BLADE TILT POINTER

1. When the blade is positioned at 90°, adjust the blade tilt pointer to read 0° on the scale.
2. Loosen the holding screw, position pointer over 0° and tighten screw.

NOTE: Make a trial cut on scrap wood when making critical cuts. Measure for exactness.

Fig. P



BLADE PARALLEL TO MITRE GAUGE GROOVE (FIG. Q, R)

This adjustment was made at the factory, but it should be rechecked and adjusted if necessary.

⚠ WARNING

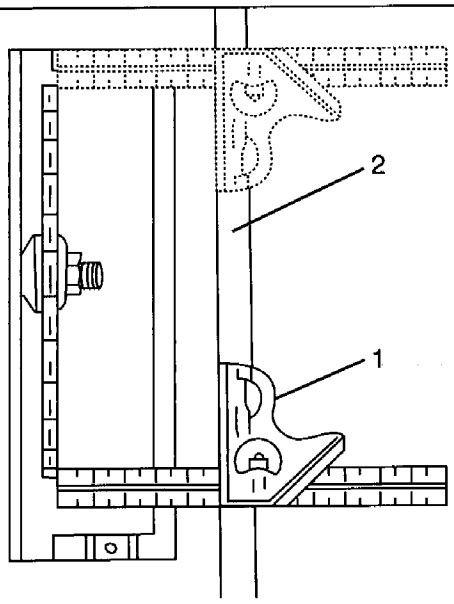
To prevent personal injury:

- Always disconnect plug from the power source when making any adjustments.
- This adjustment must be correct or kickback could result and accurate cuts cannot be made.

Initial adjustment (FIG. Q)

1. Remove the yellow switch key and unplug the saw.
2. Move the blade guard out of the way.
3. Raise the blade to the highest position and set at the 0° angle (90° straight up).
4. Select and mark, with a felt tip marker, a blade tooth having a "right set".
5. Place the combination square base (1) into the right side mitre gauge groove (2). **(FIG. Q)**
6. Adjust the rule so it touches the front marked tooth and lock the ruler so it holds its position in the square assembly.
7. Rotate the blade bringing the marked tooth to the rear and about 1/2 inch above the table.
8. Carefully slide the combination square to the rear until the ruler touches the marked tooth.
9. If the ruler touches the marked tooth at the front and rear positions, no adjustment is needed at this time. If not, perform adjustment procedure described in next section.

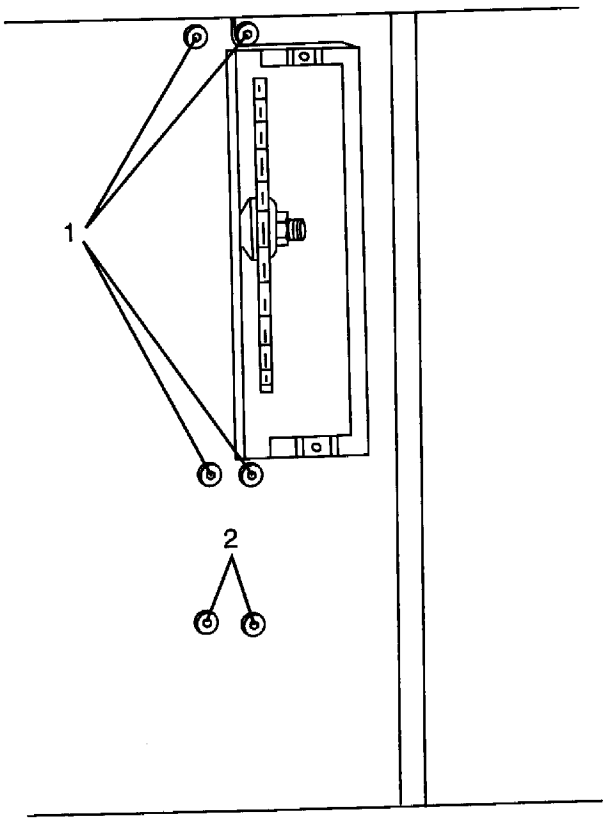
Fig. Q



Additional blade adjustments (FIG. R)

1. If the front and rear measurements are not the same, remove the combination square and loosen the four adjusting screws (1) on the top of the table about a half turn.
2. With a folded piece of cardboard covering the blade to protect your hands, move the blade carefully to the left or right as much as needed to align the blade correctly.
3. Tighten the four screws (1) and remeasure, as described in steps 4 to 9 in the prior section.
4. If sufficient adjustment cannot be made by the adjusting screws (1), then also loosen the two adjustment screws (2). Loosen these screws (2) only if necessary.
5. Recheck blade clearance making sure that the blade does not hit the table insert or other parts when at the 90° and 45° settings.
6. Tighten all screws.

Fig. R



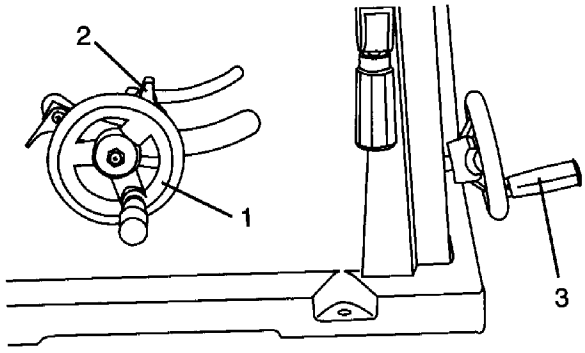
OPERATION

BASIC SAW OPERATIONS

RAISING THE BLADE (FIG. S)

To raise or lower the blade, turn the blade elevation handwheel (1) to the desired blade height, and then tighten lock handle (2) to maintain the desired blade angle.

Fig. S



TILTING THE BLADE (FIG. S)

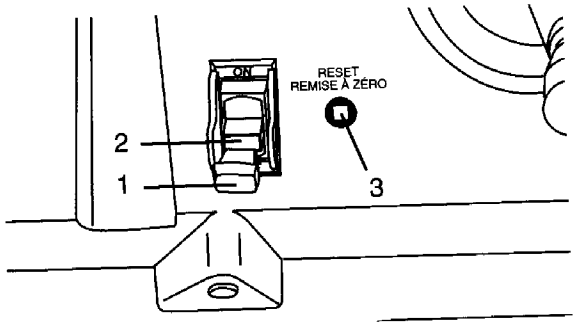
To tilt the saw blade for bevel cutting, loosen the lock knob (2) and turn the tilting handwheel (3). Tighten the lock knob (2) to secure.

ON / OFF SWITCH (FIG. T)

The ON / OFF switch has a removable key. With the key removed from the switch, unauthorized and hazardous use by children and others is minimized.

1. To turn the saw ON, insert key (1) into the slot in the switch (2). Move the switch upward to the ON position.
2. **To turn the saw OFF,** move the switch downward.
3. To lock the switch in the OFF position, grasp the end (or yellow part) of the switch toggle (1), and pull it out.
4. With the switch key removed, the switch will not operate.
5. If the switch key is removed while the saw is running, it can be turned OFF but cannot be restarted without inserting the switch key (1).

Fig. T



OVERLOAD PROTECTION (FIG. T)

This saw has a reset overload relay button (3) that will restart the motor after it shuts off due to overloading or low voltage. If the motor stops during operation, turn the ON /OFF switch to the OFF position. Unplug the saw from its power source. Wait about five minutes for the motor to cool down. Push in on the reset button (3) and turn the switch to the ON position.

⚠ WARNING

To avoid injury, the ON/OFF switch should be in the OFF position and the plug removed from the power source while the motor cool down takes place, to prevent accidental starting when the reset button is pushed. Overheating may be caused by misaligned parts or dull blade. Inspect your saw for proper setup before using it again.

CUTTING OPERATIONS

There are two basic types of cuts: ripping and crosscutting. Ripping is cutting along the length and the grain of the workpiece. Crosscutting is cutting either across the width or across the grain of the workpiece. Neither ripping nor crosscutting may be done safely freehand. Ripping requires the use of the rip fence, and crosscutting requires the mitre gauge.

⚠ WARNING

Before you use the saw each and every time, check the following:

1. Blade is tight on the arbor.
2. Bevel angle lock knob is tight.
3. If ripping, fence knob is tight and fence is parallel to the mitre gauge grooves.
4. Blade guard is in place and working properly.
5. You are wearing safety glasses.

The failure to adhere to these common safety rules, and those printed in the front of this manual, can greatly increase the likelihood of injury.

RIPPING (FIG. U, V)

⚠ WARNING

To prevent serious injury:

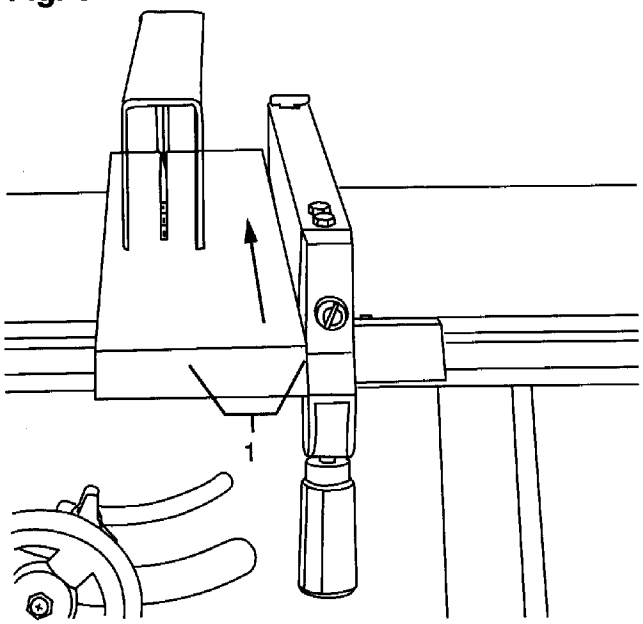
- Do not allow familiarity gained from the frequent use of your table saw to cause careless mistakes. Remember that even a careless fraction of a second is enough to cause a severe injury.
- Keep both hands away from the blade and path of the blade.
- The workpiece must have a straight edge against the fence and must not be warped, twisted, or bowed.

1. Remove the mitre gauge. Secure the rip fence to the table.
2. Raise the blade so it is about 1/8" higher than the top of the workpiece.
3. Place the workpiece flat on the table and against the fence. Keep the workpiece about 1" away from the blade.
4. Turn the saw ON and wait for the blade to come up to speed.
5. Slowly feed the workpiece into the blade by pushing forward only on the workpiece section (1) that will pass between the blade and the fence. **(FIG. U)**

⚠ WARNING

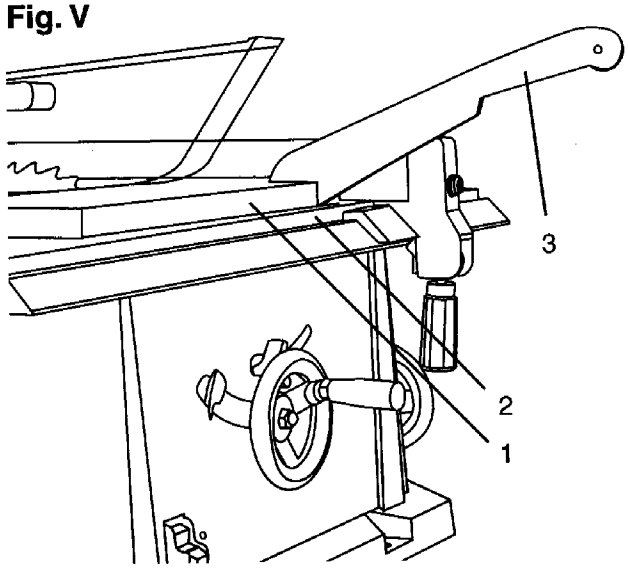
AVOID KICKBACK by pushing forward only on that section of the workpiece that will pass between the blade and the fence.

Fig. U



6. Keep your thumbs off the table top. When both of your thumbs touch the front edge of the table (2), finish the cut with a push stick. Make a push stick using the pattern on page 29.
7. The push stick (3) should always be used when the ripped workpiece is 2" or narrower (1). **(FIG. V)**
8. Continue pushing the workpiece with the push stick (3) until it passes the blade guard and clears the rear of the table.
9. Never pull the workpiece back when the blade is turning. Turn the switch OFF. When the blade completely stops raise the anti-kickback pawls on each side of the splitter and slide the workpiece out.

Fig. V



BEVEL RIPPING
This cut is the same as ripping except the blade bevel angle is set to an angle other than 0°.

⚠ WARNING
Cut only with the workpiece and the fence on the right side of the blade.

RIPPING SMALL PIECES

⚠ WARNING
Avoid injury from blade contact. Never make through-saw cuts narrower than 1/2" wide.

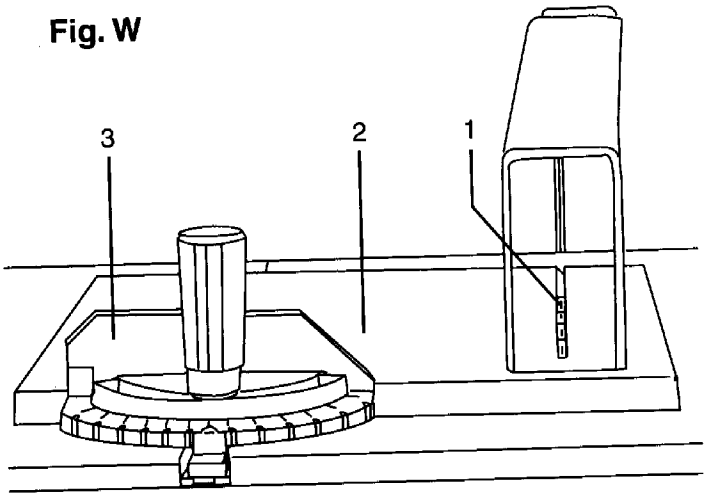
1. It is unsafe to rip small pieces. Instead, rip a larger piece to obtain the size of the desired piece.
2. When a small width is to be ripped and your hand cannot be safely put between the blade and the rip fence, use one or more push sticks to move the workpiece.

CROSSCUTTING (FIG. W)

⚠ WARNING
To prevent serious injury:
- Do not allow familiarity gained from the frequent use of your table saw to cause careless mistakes. Remember that even a careless fraction of a second is enough to cause a severe injury.
- Keep both hands away from the blade and path of the blade.

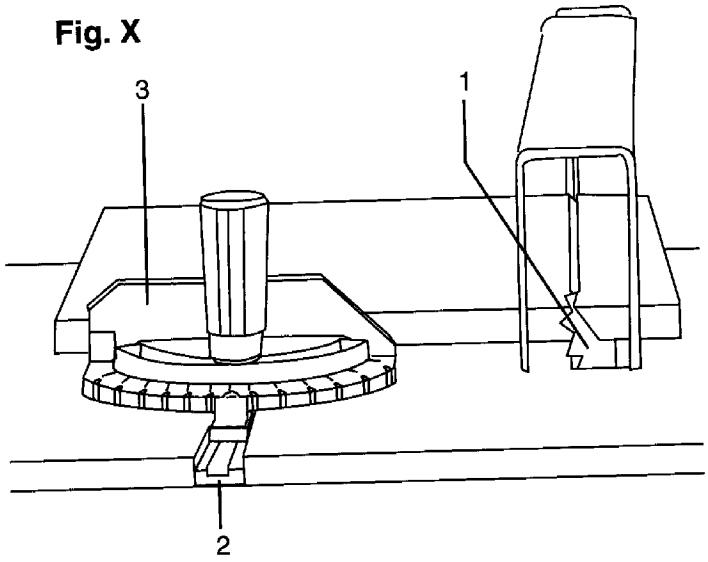
1. Remove the rip fence and place the mitre gauge in the left side groove.
2. Adjust the blade height so it is 1/8" higher than the top of the workpiece.
3. Hold the workpiece firmly against the mitre gauge with the blade path in line with the desired cut location. Move the workpiece to one inch distance from the blade.
4. Start the saw and wait for the blade (1) to come up to full speed.
5. Keep the workpiece (2) against the face of the mitre gauge (3) and flat against the face of the gauge and flat against the table. Then slowly push the workpiece through the blade **(FIG. W).**
6. Do not try to pull the workpiece back with the blade turning. Turn the switch OFF, and carefully slide the workpiece out when the blade is completely stopped.

Fig. W



BEVEL CROSSCUTTING (FIG. X)
This cutting operation is the same as crosscutting except the blade is at bevel angle other than 0°.
1. Adjust the blade (1) to the desired angle, and tighten the blade bevel lock knob.
2. Always work to the left side of the blade. The mitre gauge (3) must be in the left side groove (2). It cannot be used in the right side groove unless the mitre angle is very sharp, as it will interfere with the blade guard.

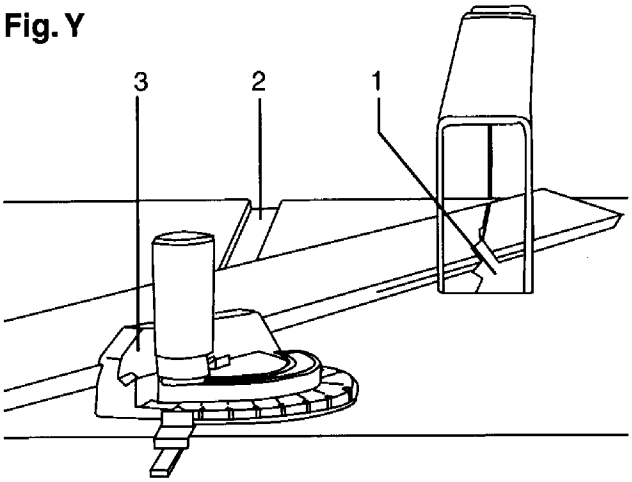
Fig. X



COMPOUND MITRE CROSSCUTTING (FIG. Y)
This sawing operation combines a mitre angle with a bevel angle.

1. Set the mitre gauge (3) to the desired angle. Use only the left side groove (2).
2. Set the blade (1) bevel to the desired angle.
3. Carefully push the mitre gauge to begin the cutting operation.

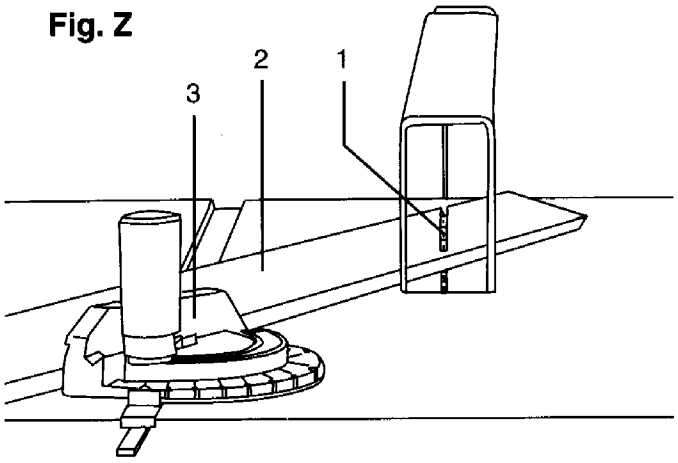
Fig. Y



MITREING (FIG. Z)
This sawing operation is the same as crosscutting except the mitre gauge is locked at an angle other than 90°.

1. Hold the workpiece (2) firmly against the mitre gauge (3).
2. Feed the workpiece slowly into the blade (1) to prevent the workpiece from moving.

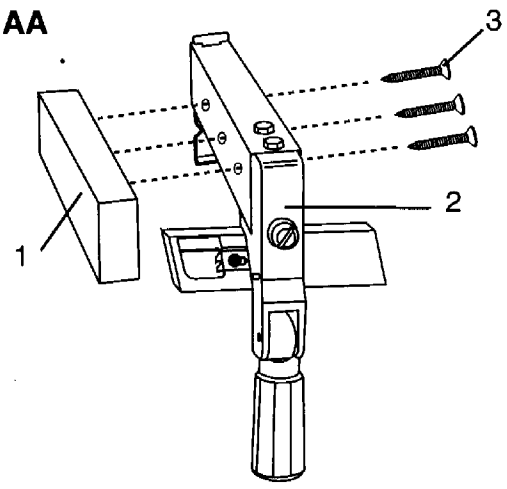
Fig. Z



USING WOOD FACING ON THE RIP FENCE (FIG. AA)
When performing some special cutting operations, add a wood facing (1) to either side of the rip fence (2):

1. Use a smooth straight 3/4" thick wood board (1) that is as long as the rip fence.
2. Attach the wood facing to the fence with wood screws (3) through the holes in the fence. A wood fence should be used when ripping material such as thin paneling to prevent the material from catching between the bottom of the fence and the table.

Fig. AA



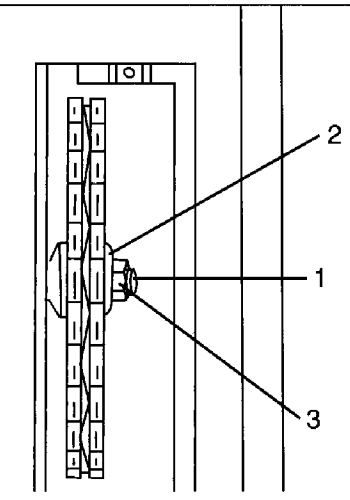
DADO CUTS (FIG. BB)

1. The dado table insert is included with this saw. Remove saw blade, blade guard, installed dado, and dado table insert.
2. Instructions for operating the dado are packed with the separately purchased dado set.
3. The arbor (1) on this saw restricts the maximum width of the cut to 1/2".
4. It is not necessary to install the outside flange (2) before screwing on the arbor nut (3). Make sure that the arbor nut (3) is tight, and that at least one thread of the arbor sticks out past the nut.
5. Use only the 6" dado set and keep the width 1/2" or less. It will be necessary to remove the blade guard and splitter when using dado. Use caution when dado is operating.
6. Use only the correct number of round outside blades and inside chippers as shown in the dado set's instruction manual. Blade or chipper must not exceed 1/2".
7. Check saw to ensure that the dado will not strike the housing, insert, or motor when in operation.

⚠ WARNING

For your own safety, always replace the blade, blade guard assembly, and blade insert when you are finished with the dado operation.

Fig. BB



MAINTAINING YOUR TABLE SAW

GENERAL MAINTENANCE

⚠ WARNING

For your own safety, turn the switch OFF and remove the switch key. Remove the plug from the power source outlet before maintaining or lubricating your saw.

1. Clean out all sawdust that has accumulated inside the saw cabinet and the motor.
2. Polish the saw table with an automotive wax to keep it clean and to make it easier to slide the workpiece.
3. Clean cutting blades with pitch and gum remover.
4. A worn, cut, or damaged power cord should be replaced immediately.

⚠ WARNING

All electrical or mechanical repairs should be attempted only by a trained repair technician. Contact the nearest Sears Service Center for service. Use only identical replacement parts. Any other parts may create a hazard.

5. Use liquid dish washing detergent and water to clean all plastic parts.

   NOTE: Certain cleaning chemicals can damage plastic parts.

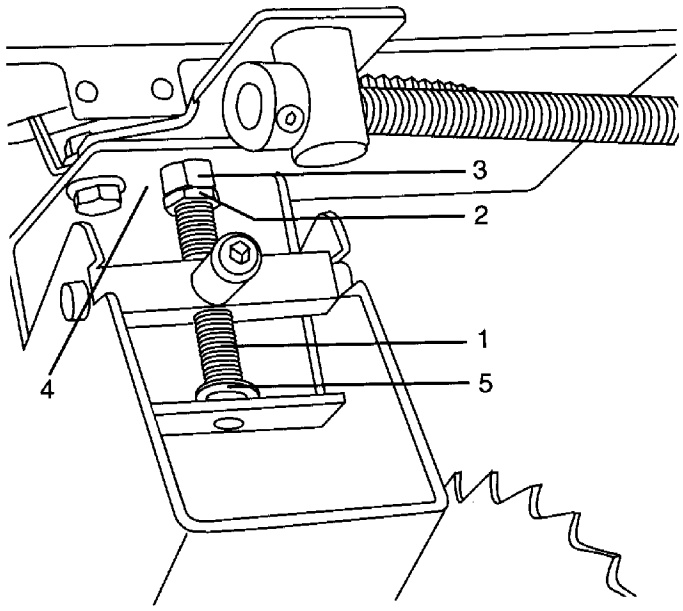
6. Avoid use of the following cleaning chemicals or solvents: gasoline, carbon tetrachloride, chlorinated solvents, ammonia and household detergents containing ammonia.

BLADE RAISING AND TILTING MECHANISM (FIG. CC)

After each five hours of operation, the blade raising mechanism and tilting mechanism should be checked for looseness, binding, or other abnormalities. With the saw disconnected from the power source, turn the saw upside down and alternately pull upward and downward on the motor unit. Observe any movement of the motor mounting mechanism. Looseness or play in the blade raising screw (1) should be adjusted as follows:

1. Using a wrench, loosen nut (2).
2. Adjust nut (3) until it is finger-tight against the bracket (4), then back off the nut (3) 1/6 turn.
3. Tighten nut (2) with the wrench, while holding nut (3) in place. Maximum allowable play of screw rod (1) is 4 mm.

Fig. CC



Place a small amount of dry lubricant such as graphite or silicon on screw rod (1) at thrust washer (5). Do not oil threads of screw rods (1). Screw rod (1) must be kept clean and free of sawdust, gum, pitch, and other contaminants for smooth operation.

If excessive looseness is observed in any other part of the blade raising mechanism or tilting mechanism, take the complete unit to a Sears Service Center.

LUBRICATION

All motor bearings are permanently lubricated at the factory and require no additional lubrication.
On all mechanical parts of your table saw where a pivot or threaded rod are present, lubricate using graphite or silicone. These dry lubricants will not hold sawdust as would oil or grease.

TROUBLESHOOTING

TROUBLESHOOTING GUIDE

⚠ WARNING

To avoid injury from an accidental start, turn the switch OFF and always remove the plug from the power source before making any adjustments.

- Consult your local Sears Service Center if for any reason the motor will not run.

SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION
Saw will not start.	1. Saw not plugged in. 2. Fuse blown or circuit breaker tripped. 3. Cord damaged.	1. Plug in saw. 2. Replace fuse or reset circuit breaker. 3. Have cord replaced by a Sears Service Center.
Does not make accurate 45° and 90° rip cuts.	1. Positive stop not adjusted correctly. 2. Blade tilt pointer not set accurately.	1. Check blade with square and adjust positive stop. 2. Check blade with square and adjust pointer to zero.
Material pinches blade when ripping.	1. Rip fence not aligned with blade. 2. Warped wood, edge against fence is not straight.	1. Check and adjust rip fence. 2. Select another piece of wood.
Material binds on splitter.	1. Splitter not aligned correctly with blade.	1. Check and align splitter with blade.
Saw makes unsatisfactory cuts.	1. Dull blade. 2. Blade mounted backwards. 3. Gum or pitch on blade. 4. Incorrect blade for work being done. 5. Gum or pitch on table causing erratic feed.	1. Replace blade. 2. Turn blade around. 3. Remove blade and clean with turpentine and coarse steel wool. 4. Change the blade. 5. Clean table with turpentine and steel wool.
Material kicked back from blade.	1. Rip fence out of alignment. 2. Splitter not aligned with blade. 3. Feeding stock without rip fence. 4. Splitter not in place. 5. Dull blade. 6. The operator letting go of material before it is past saw blade. 7. Mitre angle lock knob is not tight.	1. Align rip fence with mitre gauge slot. 2. Align splitter with blade. 3. Install and use rip fence. 4. Install and use splitter (with guard). 5. Replace blade. 6. Push material all the way past saw blade before releasing work. 7. Tighten knob.
Blade does not raise or tilt freely.	1. Sawdust and dirt in raising and tilting mechanisms.	1. Brush or blow out loose dust and dirt.
Blade does not come up to speed.	1. Extension cord too light or too long. 2. Low house voltage.	1. Replace with adequate size cord. 2. Contact your electric company.
Machine vibrates excessively.	1. Saw not mounted securely to workbench. 2. Bench on uneven floor. 3. Damaged saw blade.	1. Tighten all mounting hardware. 2. Reposition on flat level surface. Fasten to floor if necessary. 3. Replace blade.
Does not make accurate 45° and 90° cross cuts.	1. Mitre gauge out of adjustment.	1. Adjust mitre gauge.

CRAFTSMAN 10" TABLE SAW

MODEL NO. 137.27114

⚠ WARNING

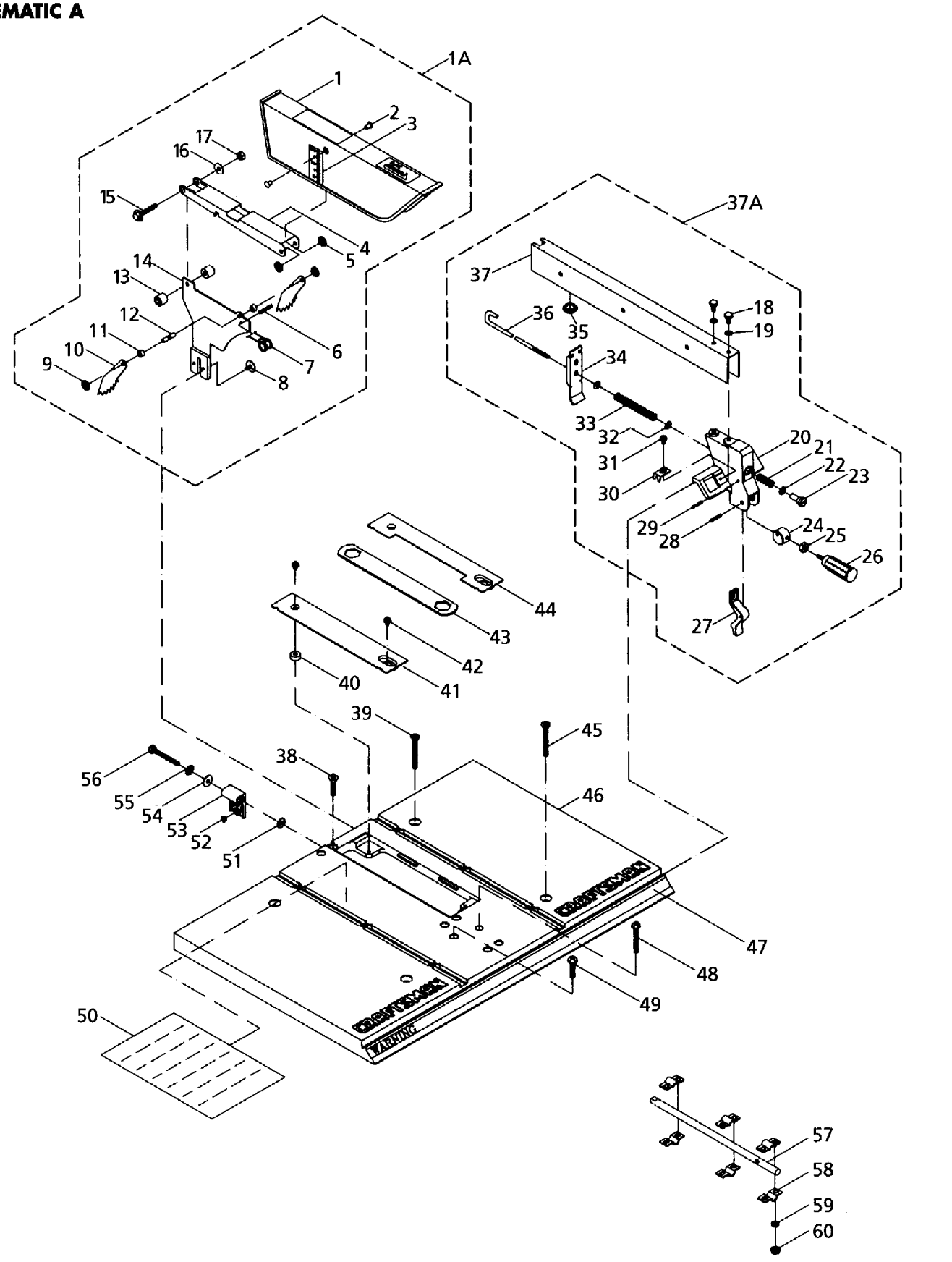
When servicing use only CRAFTSMAN replacement parts. Use of any other parts may create a HAZARD or cause product damage. Any attempt to repair or replace electrical parts on this Table Saw may create a HAZARD unless repair is done by a qualified service technician. Repair service is available at your nearest Sears Service Center.

Always order by PART NUMBER, not by key number

PARTS LIST FOR SCHEMATIC A

Key	Part Number	Description	Size	Qty
1A	14912205B2	Blade guard assembly		1
1	14912205	Blade guard		1
2	2690MZD514	Rivet	6-8	2
3	14914802	Bracket-tilt		1
4	14912301	Arm		1
5	2570DBN606	Self-locking ring	SPN-6	2
6	2536MBE607	Spring pin	4-22	1
7	14913401	Spring pin		1
8	2615BZDD22	Hex. head screw & washer	M6x1.0-20	2
9	2570DBN606	Self-locking ring	SPN-6	2
10	14913101	Kick back pawl		2
11	14913201	Bush		1
12	14913301	Roll pin		2
13	14912801	Bush		1
14	14912904	Splitter		1
15	2615BZDD50	Hex. head screw & washer	M6x1.0-40	1
16	2501MZDN06	Flat washer	6x13-1	1
17	2705FZD106	Nut chuck	M6x1.0 T=6	1
18	2601BZDA40	Hex. head bolt	M6x1.0-16	2
19	2504MZC006	External tooth lock washer	6	2
20	14910502	Width body		1
21	18623801	Compression spring		1
22	2501MBDN28	Flat washer	10x16-1	1
23	18622701	Cap screw		1
24	18622201	Eccentric		1
25	2701FZD113	Hex. nut	M8x1.25 T=6.5	1
26	14002601	Clamp handle		1
27	18622301	Link		1
28	2536MBE616	Spring pin	6-25	1
29	2536MBE608	Spring pin	4-24	1
30	14910701	Pointer		1
31	2668BZDA06	Pan head screw	M4x0.7-6	1
32	2501MZDN06	Flat washer	6x13-1	2
33	18611101	Compression spring		1
34	14910204	Rear clamp		1
35	14914701	Damper		1
36	14910102	Locking rod		1
37A	14910006A1	Parallel bracket assembly		1
37	14910006	Parallel bracket		1
38	2604BBLA42	Hex. socket countersunk head screw	M6x1.0-25	6
39	2636BZDBA9	Count head screw	M6x1.0-50	3
40	2801ABRG01	Strain relief		1
41	14903101	Insert		1
42	2621BZDA18	Pan head screw & washer	M5x0.8-12	2
43	14014801	Hex. wrench		1
44	14903104	Insert		1
45	2636BZDB48	Count head screw	M6x1.0-55	1
46	14902810	Table		1
47	14902904	Scale		1
48	2668BEDA44	Pan head screw	M6x1.0-35	1
49	2668BEDA43	Pan head screw	M6x1.0-30	1
50	14915101	Warning stick label		1
51	14914901	Washer		1
52	2701FBD106	Hex. nut	M6x1.0 T=5	2
53	14205001	Guard bracket		1
54	2501NZDN16	Flat washer	1/4x3/4-1/16	1
55	2504MZC006	External tooth lockwasher	6	1
56	2601BZDA47	Hex. head bolt	M6x1.0-50	1
57	14921306	Angle rod		1
58	14921403	Strap		6
59	2502NBC406	Spring washer	1/4"	6
60	2708FBD107	Serrated toothed flange	M6x1.0 T=6	6

SCHEMATIC A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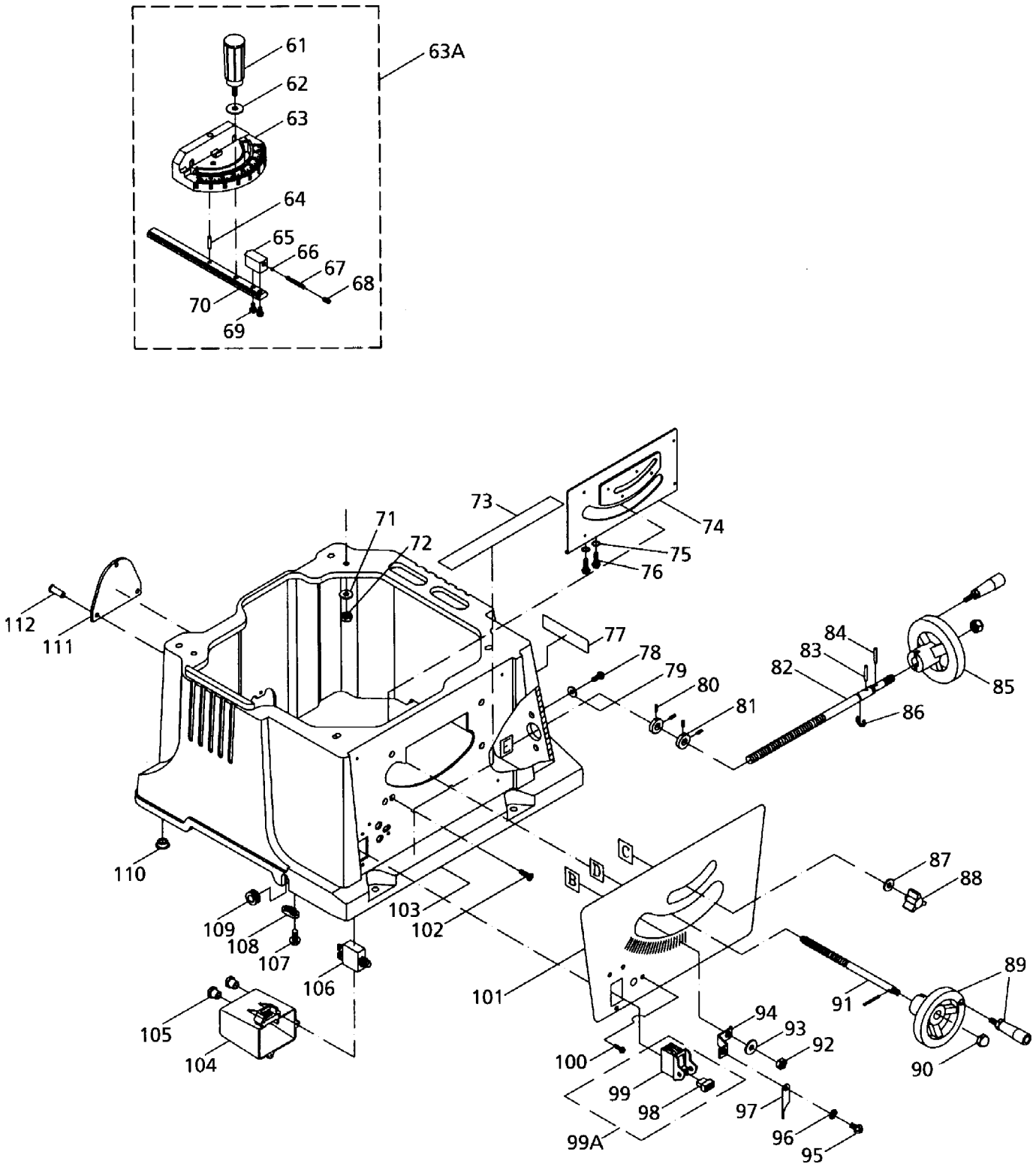
CRAFTSMAN
WARNING

Key	Part Number	Description	Size	Qty
61	14911602	Clamp handle		1
62	2501NZDN16	Flat washer	1/4x3/4-1/16	1
63A	14911402A2	Miter guage assembly		1
63	14911402	Miter guage assembly		1
64	14608001	Pin		1
65	14911802	Angle pointer		1
66	29835L5006	Steel ball		1
67	14523301	Compression spring		1
68	2603BBLA38	Hex. socket set screw	M6x1.0-10	1
69	2608BBLA32	Hex. socket truss head screw	M5x0.8-10	2
70	14911707	Sheet bar		1
71	2501NZDN16	Flat washer	1/4x3/4-1/16	4
72	2709FZDA02	Hex. nut & flat washer	M6x1.0	4
73	14906104	Warning label		1
74	14905803	Retaining clip		1
75	2504MZC004	External tooth lock washer	4	2
76	2668BZDA09	Pan head screw	M4x0.7-12	2
77	14936701	Caution Label		1
78	14936501	Parrie ring		4
79	2501NBDN12	Flat washer	1/4x5/8-1/16	2
80	2603BBLA36	Hex. socket set screw	M6x1.0-6	4
81	2668BBDA39	Pan head screw	M6x1.0-12	4
82	14936001	Screw bar		1
83	2536MBE629	Spring pin	3-14	1
84	2536MBE605	Spring pin	3-24	2
85	14937102	Wheel		1
86	2570BBN209	E-ring	E-9	2
87	2501NBDN16	Flat washer	1/4x3/4-1/16	1
88	15100801	Lock knob	6	2
89	14900610	Wheel		1
90	2703FMD108	Crown nut	M8x1.25 T=12.52	
91	14901103	Height regulating bolt		1
92	2701FZD113	Hex. nut	M8x1.25 T=6.5	1
93	2501MZDN08	Flat washer	8x16-2.5	1
94	14901501	Pointer bracket		1
95	2668BZDA23	Pan head screw	M5x0.8-8	1
96	2504MZB006	Internal tooth lock washer	6	1
97	14901703	Switch key		1
98	28605BH071	Eccentric		1
99A	2898DB7G06	Rocker switch		1
99	2851D55G06	Rocker switch element		1
100	2653MZDE11	Truss head tapping screw	M4x16-12	4
101	14900384	Label		1
102	2651PBDK12	Count head tapping screw	M4x18-10	4
103	14900111	Body shell		1
104	14902302	Switch box		1
105	2801DBHA04	Strain relief		2
106	2853U55501	Circuit breaker switch		1
107	2660MBCE14	Pan head tapping screw	M4x16-16	2
108	83990121	Cord clamp		1
109	2801ABRF01	Strain relief		1
110	18402702	Dust shield		4
111	14905604	Plate cover		1
112	2690MZD515	Rivet	5-11	3

SCHEMATIC B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CRAFTSMAN 10" TABLE SAW

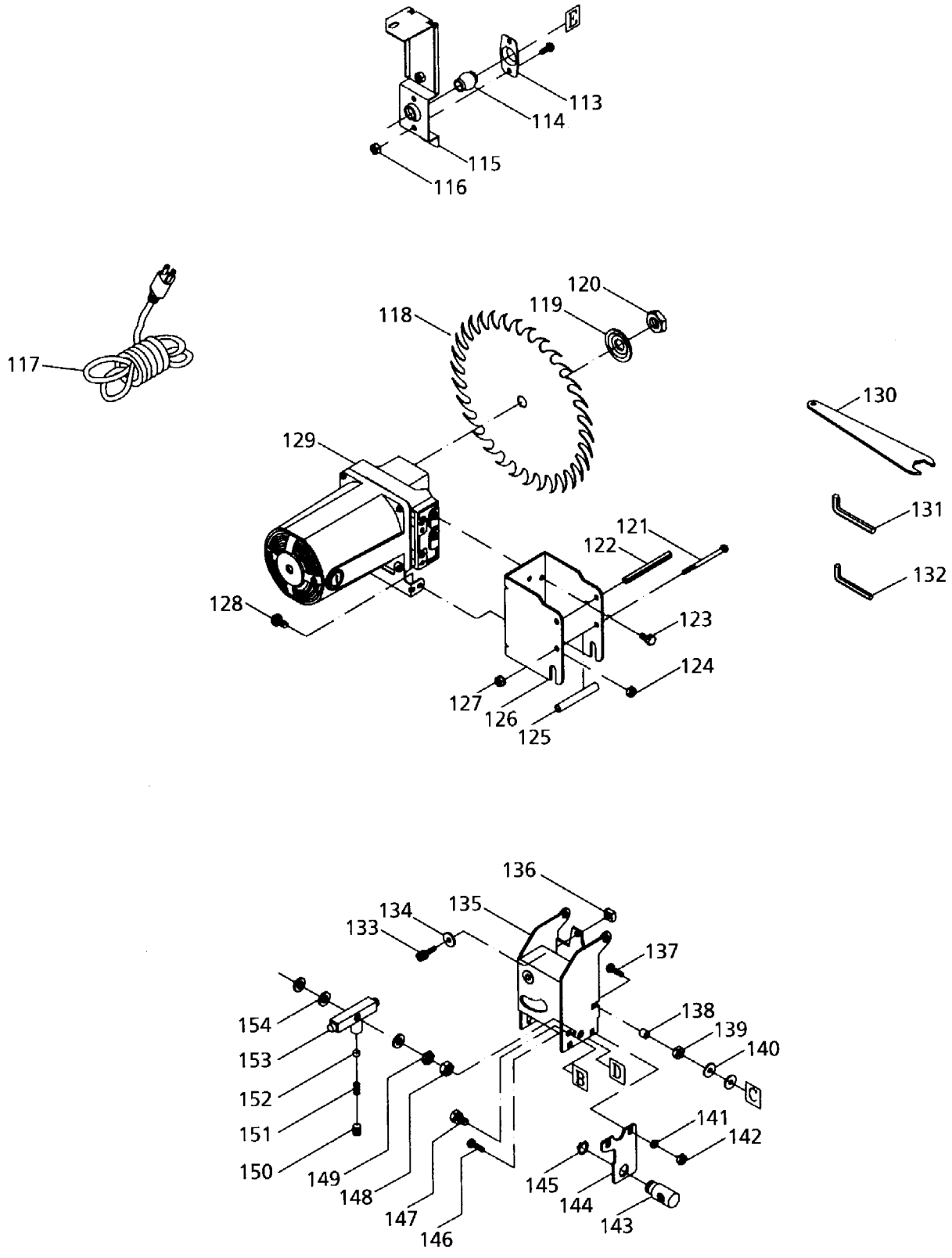
MODEL NO. 137.27114

PARTS LIST FOR SCHEMATIC C

Key	Part Number	Description	Size	Qty
113	15210601	Bearing seat		2
114	14936301	Shaft		1
115	14935902	Stiffener		1
116	2708FBD107	Serrated tooth hex. flange	M6x1.0 T=6	2
117	2807BB06CA	Power cable		1
118	14930203	Blade		1
119	14930102	Arbor collar		1
120	14930002	Set nut		1
121	2672BBDB50	Cap head square neck bolt	M6x1.0-80	1
122	2536MBE621	Spring pin	8-90	1
123	2615BBDC25	Hex. head screw & washer	M8x1.25-16	4
124	2701FBD105	Hex. nut	M5x0.8 T=4	1
125	14920301	Spacer		1
126	14920003	Motor bracket		1
127	2709FZDA02	Hex. nut & flat washer	M6x1.0	1
128	2620BBDC18	Pan head screw & washer	M5x0.8-12	1
129	8387129904	Motor		1
130	14904402	Wrench		1
131	2138MBL704	Hex. wrench	4-64	1
132	2138MBL709	Hex. wrench	3-90	1
133	2617BBLC11	Hex. socket head cap screws	M5x0.8-20	1
134	2501NBDN03	Flat washer	3/16x3/8-0.022	1
135	14921703	Bracket		1
136	14921001	Plunger housing		1
137	2672BZDA44	Cap head square neck bolt	M6x1.0-35	1
138	14922901	Spacer		1
139	2701FZD106	Hex. nut	M6x1.0 T=5	1
140	2501NBDN09	Flat washer	1/4x3/4-7/64	2
141	2502ABC417	Spring washer	6	2
142	2701FBD106	Hex. nut	M6x1.0 T=5	2
143	14935001	Nut chuck		1
144	14935102	Supporting plate		1
145	2570BBN116	C-ring	A-16	1
146	2672BBDA40	Cap head square neck bolt	M6x1.0-16	2
147	2615BZDD25	Hex. head screw & washer	M8x1.25-16	1
148	2701FZD110	Hex. nut	M10x1.5 T=8	1
149	2701FZD111	Hex. nut	M10x1.5 T=4	1
150	2603BBLA66	Hex. socket set screw	M10x1.5-12	1
151	14901302	Spring		1
152	14901203	Saddle		1
153	14921802	Bracket		1
154	2501NNHN34	Flat washer	3/8x3/4-5/64	3
*	137217114000	1Owner's manual		1

* Not shown

SCHEMATIC C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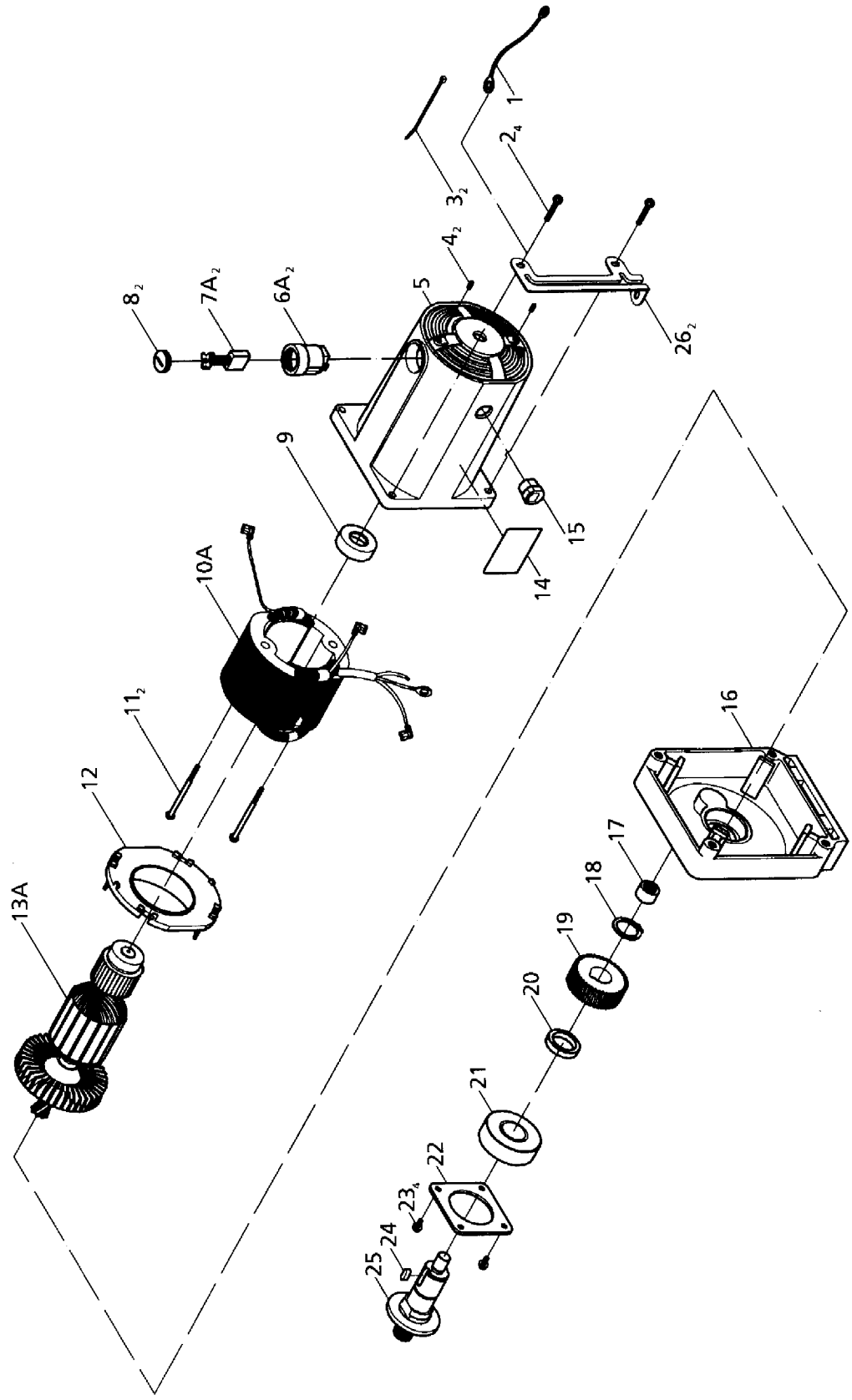
CRAFTSMAN 10" TABLE SAW

MODEL NO. 137.27114

PARTS LIST FOR SCHEMATIC D

Key	Part number	Description	Size	Quantity
1	2806556S3	Lead assembly green		1
2	2620BBDB26	Pan head screw	M5x0.8-30	4
3	280955AA01	Cable ties		2
4	2603BBLA23	Hex. socket set screw	M5x0.8-8	2
5	87840021	Motor housing		1
6	83962491A1	Brush holder assembly		2ST
7	83990291A1	Brush assembly		2ST
8	83990301	Brush cover		2
9	87840081	Bearing bushing		1
10	83870111A1	Field assembly		1
11	2662MZDE41	Pan head tapping screw	M5x12-60	2
12	87840131	Baffle		1
13	87840122A2	Armature assembly		1
14	8B27613574	Motor nameplate		1
15	2801UBHA07	Strain relief bushing		1
16	83871161	Bracket		1
17	2001AH1010	Needle bearing		1
18	2570BBN117	C-ring		1
19	87840171	Helix gear		1
20	83980191	Collar		1
21	2001LU6204	Ball bearing	6204LLU	1
22	83980221	Bearing retainer		1
23	2620BZDB08	Pan head screw	M4x0.7-12	4
24	2571MNC252	Parallel key		1
25	83880252	Arbor shaft		1
26	83871271	Support plat		2

SCHEMATIC D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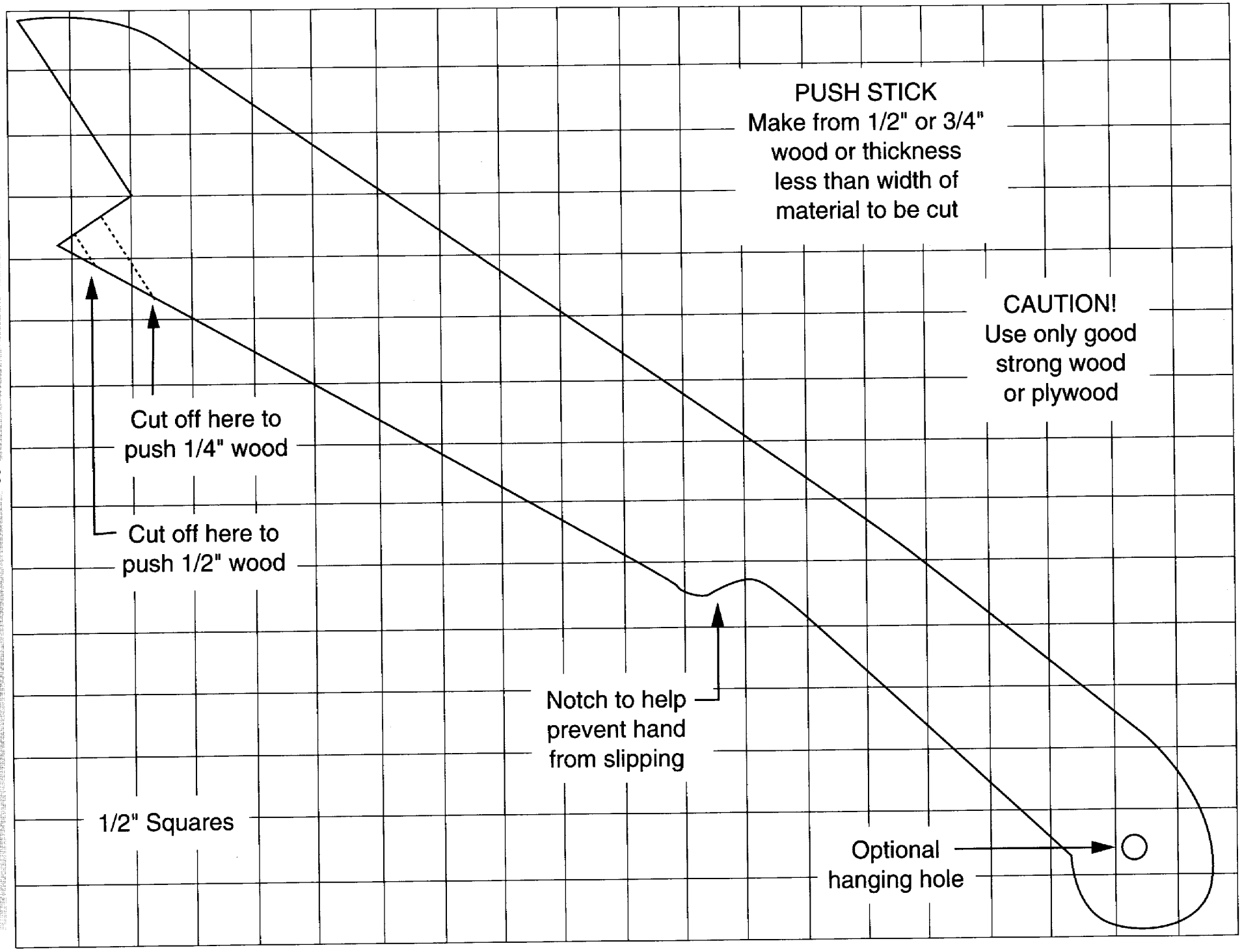
PUSH STICK
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material to be cut
CAUTION!
Use only good
strong wood
or plywood
Cut off here to
push 1/4" wood
Cut off here to
push 1/2" wood
Notch to help
prevent hand
from slipping
1/2" Squares
Optional
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